



中国认可
国际互认
检验
INSPECTION
CNAS IB0551



Report No.: **WHFAT2GXJ11YM501**
报告编号: WHFAT2GXJ11YM501

Certificate for Safe Transport of Intended cargo by Maritime Transport

拟运货物海上运输条件鉴定书

Non-restricted Goods 非限制性货物

Name of Goods 货物名称	Lithium Battery: ER10450 锂电池: ER10450
Applicant 委托单位	WUHAN FANSO TECHNOLOGY CO., LTD 武汉孚安特科技有限公司
Issue Date 签发日期	2026-01-27

Inspected by/检验 Guangwei Li Inspection Engineer	Reviewed by/审核 Tiang Hongxiong Audit Engineer	Approved by/批准 Hongbin Ku Approval Engineer
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**广州邦禾检测技术有限公司
Guangzhou MCM Certification & Testing Co., Ltd.**

Inspection Conclusion

检验结论

Name 货物名称	Lithium Battery: ER10450 锂电池: ER10450		
Model 货物型号	ER10450	Classification 货物类别	Lithium metal batteries 锂金属电池
Rating 额定值	3.6V, 1000mAh (Lithium content= 0.3g)		
Information 信息	Package G. W. 包装毛重	9.6kg	Equipment's Qty. 设备数量
	Batteries' N.W. 电池净重	6.9kg	Batteries' Qty. 电池数量
Applicant 委托单位	WUHAN FANSO TECHNOLOGY CO.,LTD 武汉孚安特科技有限公司		
	Floor 2, Building 3, Jiahua Tehnology Industrial Park, No.270 of Huangjinkou Three Village, Hanyang District, Wuhan City, China 武汉市汉阳区黄金口三村 270 号加华科技产业园 3 号楼 2 层		
Manufacturer 制造单位	WUHAN FANSO TECHNOLOGY CO.,LTD 武汉孚安特科技有限公司		
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Factory 生产单位	WUHAN FANSO TECHNOLOGY CO.,LTD 武汉孚安特科技有限公司		
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Identification 鉴定单位	Guangzhou MCM Certification & Testing Co., Ltd. 广州邦禾检测技术有限公司		
Standard 鉴定标准	IMO International Maritime Dangerous Goods Code (42-24 Edition) IMO 《国际海上危险货物运输规则》 (42-24 版)		
Date 日期	Submission 送检日期	2026-01-20	Appraisal 鉴定日期
	Validity 有效期	2026-01-27 ~ 2026-12-31	
Conclusion 检验结论	Hazards identification 危险品识别 Non-restricted Goods, as per Special Provision 188 非限制性货物, 根据特殊条款 188 UN nos. and proper shipping name UN 编号和运输专用名 Not Applied 不适用 Packing requirements 包装要求 Packaging in accordance to SP188 按照特殊条款 188 进行包装		Label used 标签使用  * = UN 3090
Comment: 备注:	/		

IMO International Maritime Dangerous Goods Code (42-24 Edition) IMO 《国际海上危险货物运输规则》 (42-24 版)			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
2.9.4 Lithium batteries 2.9.4 锂电池组			P
2.9.5 Sodium ion batteries 2.9.5 钠离子电池组			N/A
2.9.4.1 2.9.5.1	Each cell or battery is of the type proved to meet the requirements of each test of the Manual of Tests and Criteria, part III, subsection 38.3 每个型号的电芯或电池满足《试验和标准手册》第 III 部分第 38.3 节每项试验的要求。	The batteries met the test requirements of Section 38.3 of UN Manual of Test and Criteria. See Test report WHFAT20240320U01 电池符合联合国《试验和标准手册》中 38.3 章的测试要求。见检测报告 WHFAT20240320U01	P
2.9.4.2 2.9.5.2	Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under conditions normally incident to transport. 每一个电芯和电池都装有安全排气装置, 或设计上能预防在正常运输下发生剧烈破裂	Design/device for safety venting existed in the cell 电芯上存在安全排气的设计/装置	P
2.9.4.3 2.9.5.3	Each cell and battery is equipped with an effective means of preventing external short circuits. 每一个电芯和电池都装有防止外部短路的有效装置	Design/device for preventing external short circuits existed in the cell 电芯上存在防止外部短路的设计/装置	P
2.9.4.4 2.9.5.4	Each battery containing cells or series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.). 每个包含多个并联电芯或电芯块的电池, 都装有防止反向电流造成危险所需的有效装置 (例如二极管、保险丝等)	Cell only. Not applied to this clause 仅为电芯, 不适用于此条款	N/A
2.9.4.5 2.9.5.5	Cells and batteries shall be manufactured under a quality management programme. 电芯和电池应在质量管理体系下生产。	The customer states that it meets the requirements 客户申明满足要求	P
2.9.4.6	Lithium batteries, containing both primary lithium metal cells and rechargeable lithium ion cells, that are not designed to be externally charged(see special provision 387 of chapter 3.3) shall meet the conditions 按设计要求不能外部充电的既含有一次性锂金属电芯又含有可充电锂离子电芯的电池 (见第 3.3 章节特殊规定 387) , 必须满足此条件	Not applicable 不适用	N/A
2.9.4.7 2.9.5.6	Except for button cells installed in equipment (including circuit boards), manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 shall make available the test summary as specified in the Manual of Tests and Criteria, part III, subsection 38.3, paragraph 38.3.5. 除安装在设备 (包括电路板) 中的纽扣电池外, 2003 年 6 月 30 日之后制造的电芯或电池的制造商和后续分销商必须提供《试验和标准手册》第 III 部分第 38.3 小节第 38.3.5 段规定的测试概要。	Test summary has been available on request. See Test summary WHFAT20240320UG01 测试概要按要求提供。见检测报告 WHFAT20240320UG01	P
Special Provision 188 特殊条款 188			P
1	For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g; 对于锂金属电芯或锂合金电芯, 锂含量不超过 1g;	0.3g	P
	For a lithium-ion cell or sodium-ion cell, the watt-hour rating is not more than 20 Wh; 对于锂离子电芯或钠离子电芯, 瓦特-小时的额定值不超过 20Wh;	Not applicable 不适用	N/A

IMO International Maritime Dangerous Goods Code (42-24 Edition) IMO 《国际海上危险货物运输规则》 (42-24 版)			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
2	For a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g; 对于锂金属电池或锂合金电池, 合计锂含量不超过 2g;	Not applicable 不适用	N/A
	For a lithium-ion battery or sodium-ion battery, the watt-hour rating is not more than 100 Wh. 对于锂离子电池或钠离子电池, 瓦特-小时的额定值不超过 100Wh。	Not applicable 不适用	N/A
	Lithium-ion batteries and sodium-ion batteries subject to this provision shall be marked with the watt-hour rating on the outer case, except lithium-ion batteries manufactured before 1 January 2009; 受本规定限制的锂离子电池和钠离子电池, 须在外壳上标识瓦特-小时的额定值, 2009 年 1 月 1 日前制造的锂离子电池除外。	Not applicable 不适用	N/A
3	Each lithium cell or battery meets the provisions of 2.9.4.1, 2.9.4.5, 2.9.4.6 if applicable, and 2.9.4.7; 每个锂电芯或电池均符合 2.9.4.1, 2.9.4.5, 2.9.4.6(如适用) 和 2.9.4.7 的要求	Complied 符合要求	P
	Each sodium ion cell or battery meets the provisions of 2.9.5.1, 2.9.5.5, 2.9.4.6 每个钠离子电芯或电池均符合 2.9.5.1, 2.9.5.5 和 2.9.4.6 的要求	Not applicable 不适用	N/A
4	Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits. This includes protection against contact with electrically conductive material within the same packaging that could lead to a short circuit. 电芯和电池, 除安装在设备中外, 应采用完全包裹电芯或电池的内包装进行包装。应保护电芯和电池, 以防止短路。这包括防止与同一封装内的导电材料接触, 从而导致短路。	Equivalent protection existed 已有相当防护措施	P
	The inner packagings shall be packed in strong outer packagings which conform to the provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.5; 内包装应采用符合 4.1.1.1、4.1.1.2 和 4.1.1.5 规定的坚固外包装包装;	Strong outer packagings, Complied 坚固外包装箱, 满足要求	P
5	Cells and batteries when installed in equipment shall be protected from damage and short circuit, and the equipment shall be equipped with an effective means of preventing accidental activation. 安装在设备中的电芯和电池, 应保护以防损坏和短路, 且设备应装配有效的防止意外激活的措施。	Cells transport separated from equipment 电芯单独运输	N/A
	When batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained; 当电池安装在设备中时, 设备应包装在坚固的外包装中, 外包装由适当的材料制成, 其强度和设计与包装的容量及其预期用途有关, 除非装有电池的设备能提供同等的保护;	Not applicable 不适用	N/A
6	Each package shall be marked with the appropriate battery marking, as illustrated in 5.2.1.10. 每个包装件都应按照 5.2.1.10 所示, 标有相应的电池标签。	See the package photo of page 7. 见第 7 页的包装照片。	P

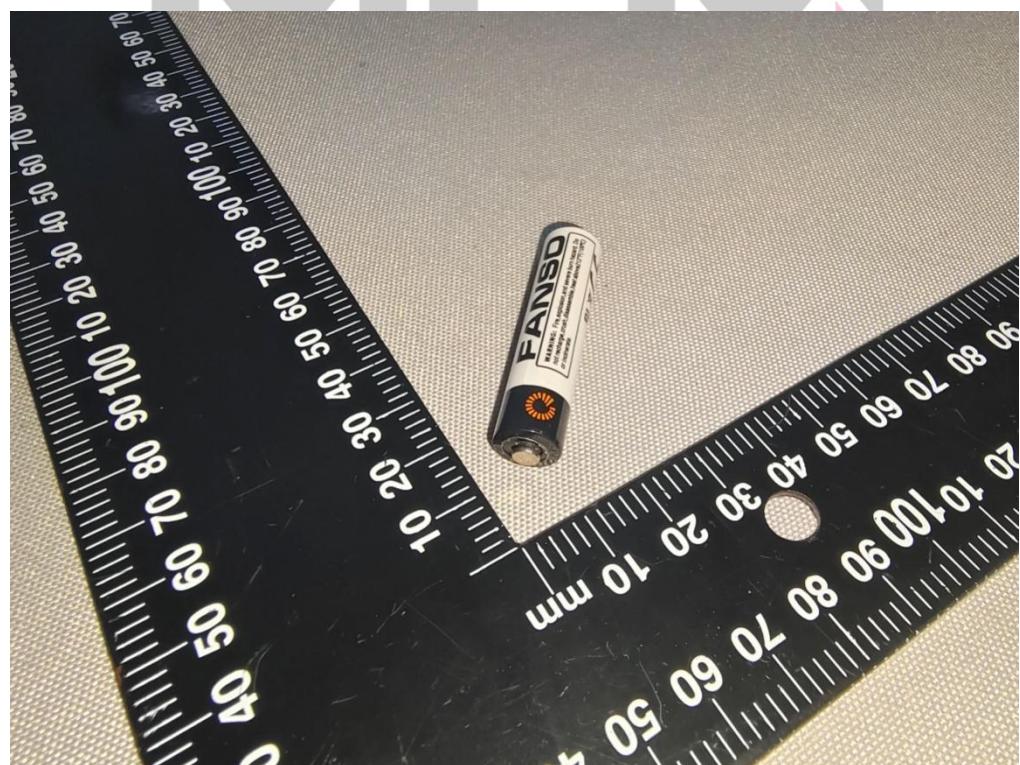
IMO International Maritime Dangerous Goods Code (42-24 Edition) IMO 《国际海上危险货物运输规则》 (42-24 版)			
Clause- Requirement 条款-要求		Result-Remark 结果-备注	Verdict 判定
	<p>This requirement does not apply to:</p> <p>.1 packages containing only button cell batteries installed in equipment (including circuit boards); or</p> <p>.2 packages containing no more than four cells or two batteries installed in equipment, where there are not more than two packages in the consignment.</p> <p>这项要求不适用于以下情况:</p> <p>1 包装件内只有安装在设备上 (包括电路板上) 的纽扣电池; 或</p> <p>2 包装件内只有不超过 4 个安装在设备上的电芯或 2 个电池, 每批货物的包装件不超过 2 个。</p>	Not applicable 不适用	N/A
7	<p>Except when cells or batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents; and</p> <p>除非电芯或电池安装在设备中, 否则每个包装应能够承受任何方向 1.2 米的跌落试验, 而不会损坏其中包含的电芯或电池, 不会移动内装物以使电池与电池 (或电芯与电新) 接触, 也不会释放内装物</p>	Complied. See report: 满足要求。见报告: WHAFT20240320D02	P
8	<p>Except when cells or batteries are installed in or packed with equipment, packages shall not exceed 30 kg gross mass.</p> <p>除非电芯或电池安装在设备上或与设备打包在一起, 否则包装件总重不得超过 30kg。</p>	Cells transported separated from equipment, and Gross mass: 9.6kg 电芯单独运输, 毛重: 9.6kg	P
Special Provision 387(only for hybrid lithium batteries) 特殊条款 387 (仅适用于混合锂电池)			N/A
Special Provision 400 (only for sodium ion batteries) 特殊条款 400 (仅适用于钠离子电池)			N/A



Technology & Service

Photos of the Cell 电芯照片

Cell (ER10450, 3.6V, 1000mAh (Lithium content= 0.3g))



Photos of the Package
包装件照片



-- End of Report --

Important Note

注意事项

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8. As for the inspection results, "N/A" means "Not applicable", "P" means "Pass" and "F" means "Fail".
本检验结果中“N/A”表示“不适用”，“P”表示“通过”，“F”表示“不通过”。

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